

M 4.8, 7km NW of Delta, B.C., MX

Origin Time: 2021-03-31 08:56:25 UTC (Wed 01:56:25 local)
Location: 32.3903° N 115.2498° W Depth: 19.2 km

Created: 1 day, 0 hours after earthquake

Estimated Fatalities

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

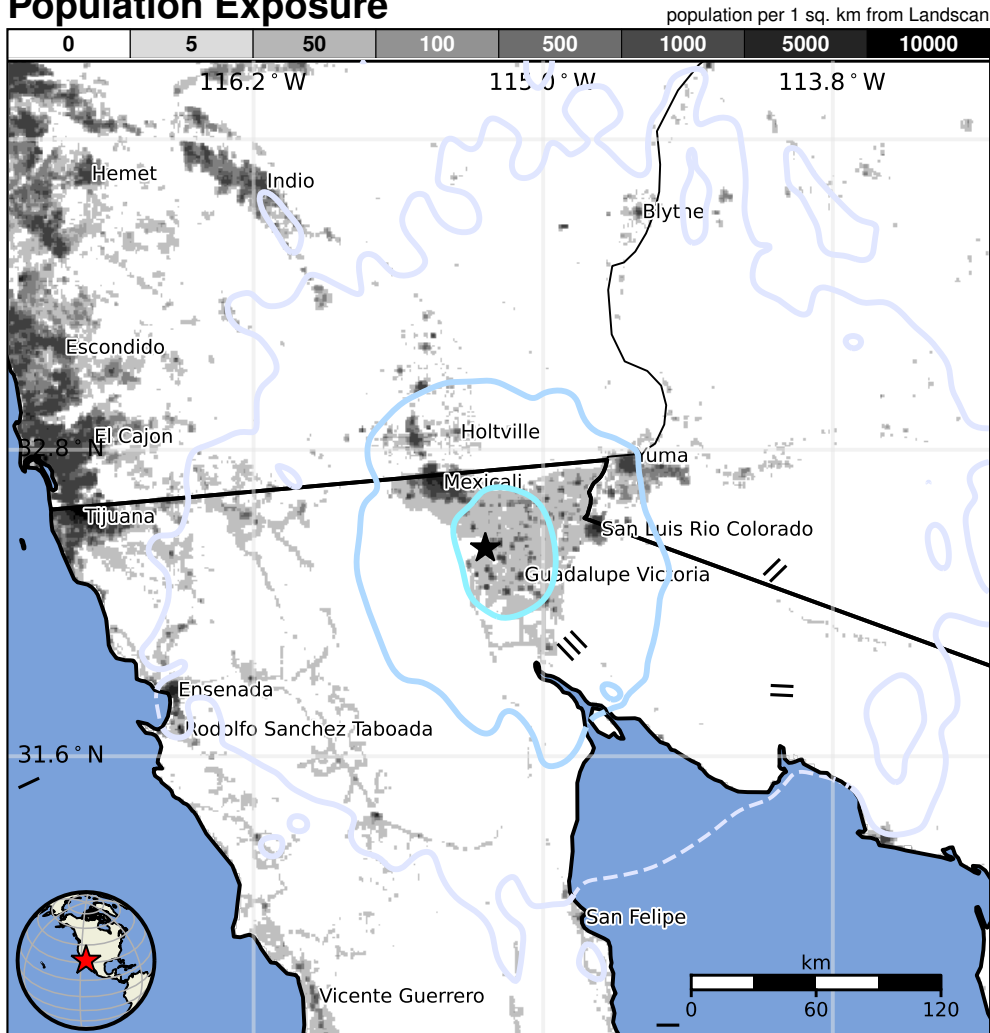


Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)	5,874k*	3,434k	202k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY	I	II-III	IV	V	VI	VII	VIII	IX	X+
PERCEIVED SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy

*Estimated exposure only includes population within the map area.

Population Exposure



Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date (UTC)	Dist. (km)	Mag.	Max MMI(#)	Shaking Deaths
1991-06-28	328	5.6	VI(1,267k)	1
1992-06-28	232	7.3	VIII(23k)	1
1971-02-09	367	6.6	IX(21k)	65

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Ejido Saltillo	2k
IV	Delta	6k
IV	Guadalupe Victoria	18k
IV	Ejido Patzcuaro	2k
IV	Poblado Lazaro Cardenas (La Veintiocho)	2k
IV	Doctor Alberto Oviedo Mota	8k
III	Mexicali	597k
II	Ensenada	257k
II	Chula Vista	244k
I	San Diego	1,307k
I	Tijuana	1,376k

bold cities appear on map.

(k = x1000)

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty.

<https://earthquake.usgs.gov/earthquakes/eventpage/ci39596135#pager>

Event ID: ci39596135